

Case: Prenatal diagnosis of Cloacal Malformation

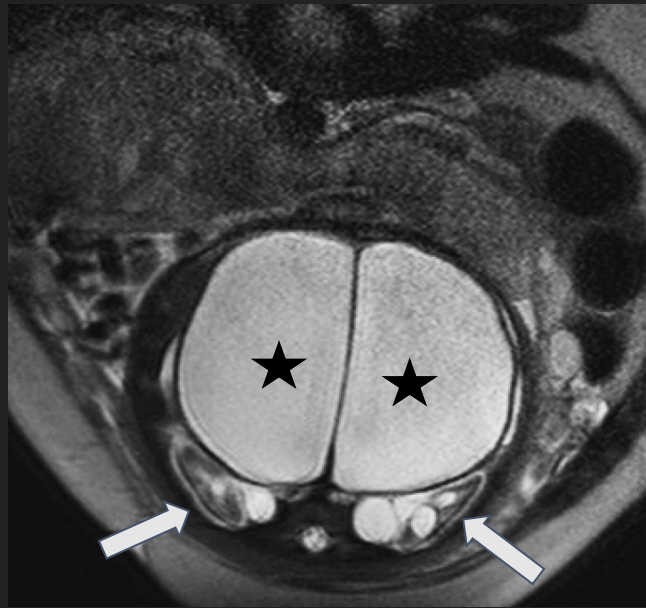
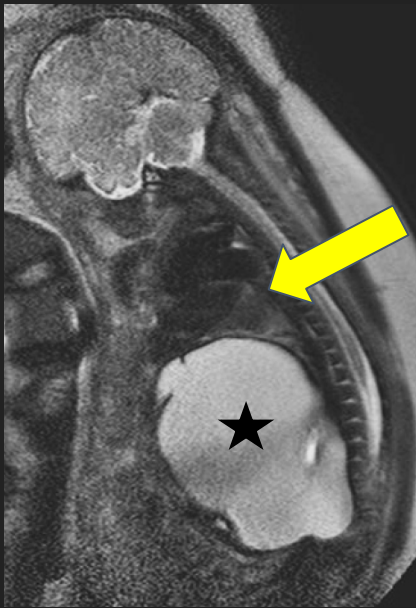
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Anamnestic data

- IUGR
 - anhydramnion
 - prenatal ultrasound > cystic tumor
- > MRI in 37th gestational week >> diagnosis of cloacal malformation

Prenatal MRI - cloacal malformation



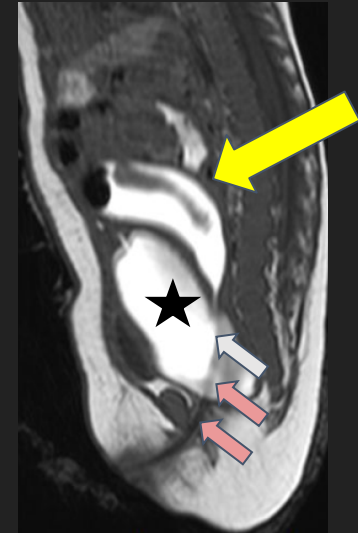
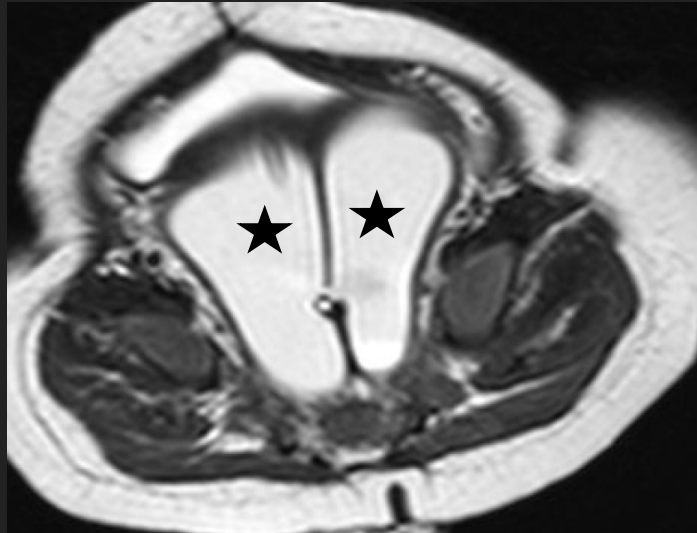
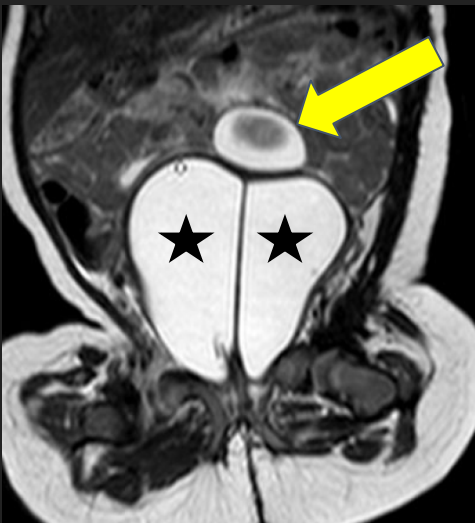
★ hydrocolpos
rectum

↖ hydronephrosis

Prenatal MRI findings

- midline pelvic cystic mass > vagina bisepta, bilateral hydrocolpos, uterus duplex
- bilateral hydroureteronephrosis
- slightly abnormal meconium signal (altered by suspected influx of urine)
- common channel of length around 5 cm
- small bladder
- anhydramnion

Postnatal MRI genitography - high cloacal malformation



★ hydrocolpos
↙ rectum

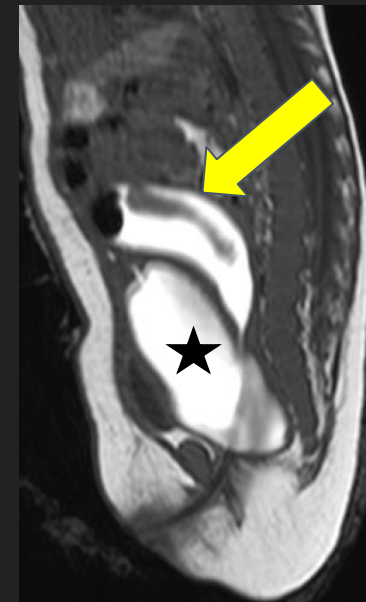
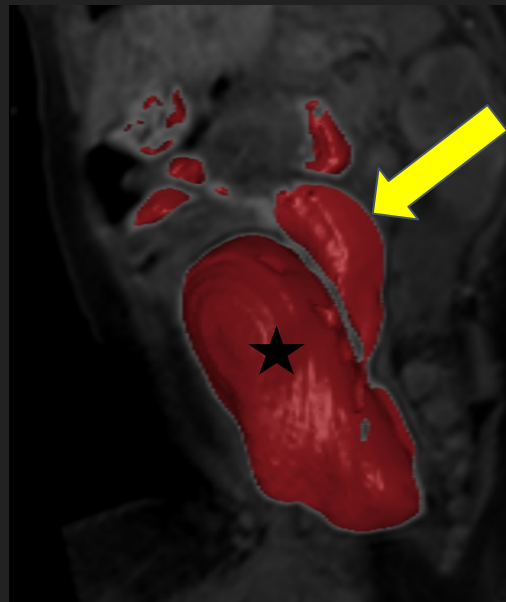
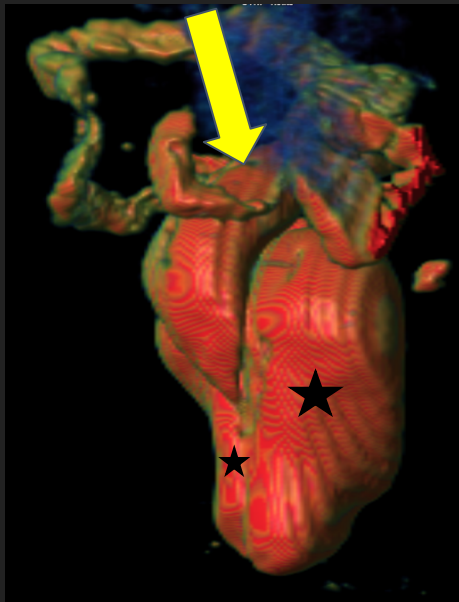
↖ rectal fistula
↗ common channel

with instillation of gadolinium into colostomy

Postnatal MRI findings

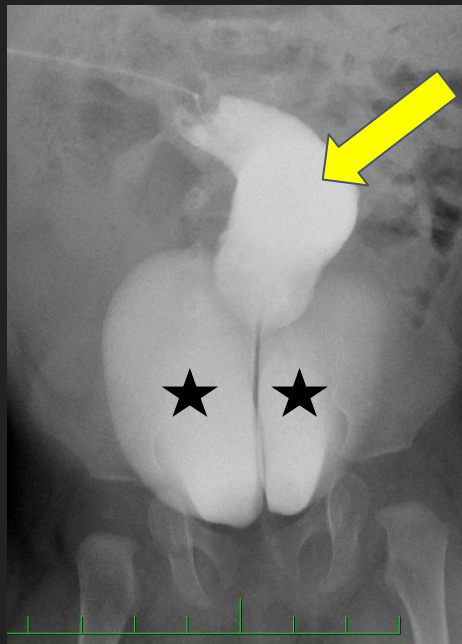
- vagina bisepta, bilateral hydrocolpos, uterus didelphys
- hydroureteronephrosis
- common channel of length around 5 cm
- hypoplastic pelvic floor muscles
- normal spine

MRI genitography - high cloacal malformation

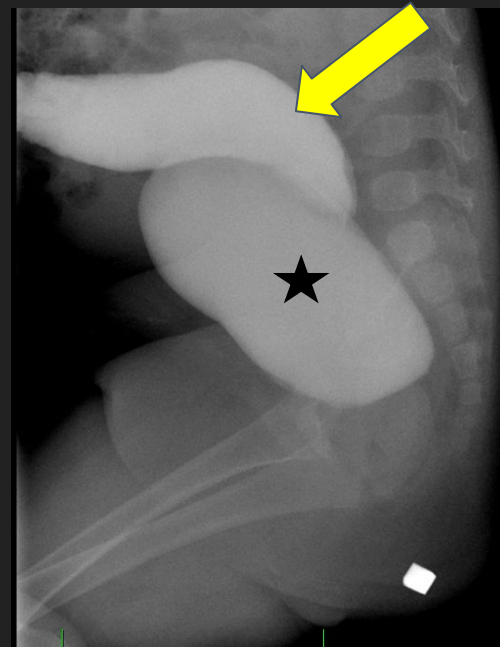


★ hydrocolpos
↙ rectum

Distal Pressure Colostogram - high cloacal malformation



★ hydrocolpos



★ rectum

High cloacal malformation

PSARPVUP 20.01.14 (Posterior sagittal anorectovaginourethroplasty, pull through) confirmed the prenatal diagnosis

- short rectal pouch was excized
- colon was pulled down to neoanus
- diverting ileostomy was done

She has regular bowel movements, passes 6 stools daily and has no evidence of neurogenic bladder so far



Conclusion

Prenatal and postnatal MRI examination proved to be similarly precise in anatomical description of the high cloacal malformation



Thank you for your attention